

# **Plutonium Finishing Plant Project**

## **G. W. Jackson, Vice President/(509) 373-6622**

*t*



**Stabilization Packaging  
Equipment Stabilization  
Activities In Glovebox  
642-C**



**Item Loaded Into A  
DOT-6M Shipping  
Container In  
Preparation For  
Shipment To Los Alamos  
National Laboratory**



## OVERVIEW

The Plutonium Finishing Plant (PFP) Project is responsible for work in Project Baseline Summary (PBS) RL-CP03, *Plutonium Finishing Plant*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of May 2003.

## NOTABLE ACCOMPLISHMENTS

### Maintain Safe and Secure Special Nuclear Material

The International Atomic Energy Agency (IAEA) conducted a random selection of items and completed verification measurements on 70 items, which completed the second material swap. Operations is in the process of removing released material from the IAEA vault to the stabilization feed streams.

Preliminary work was conducted in glove box 636 for the splitting of Materials Identification and Surveillance (MIS) samples. One item was split into three samples, packaged and sealed-out on May 30, 2003. Five additional MIS samples are scheduled for shipment to Los Alamos National Laboratory in mid-June.

### Stabilization of Nuclear Materials

**Metals, Alloys, Oxides and Polycubes:** One hundred two oxide items were processed during the reporting period. As of May 25, 2003, 1,320 oxide items have been processed under the 2736-ZB fiscal year (FY) 2003 work scope. This surpassed the year-to-date goal by 17 items.

**Residues:** During May, 3,107 grams of oxide/Mixed Oxide were packed into pipe overpack containers (POCs). Startup activities associated with the processing of the reduction residues was complete. Residues processing will be initiated upon completion of the processing of the combustibles, miscellaneous residues, and compounds.

**Outer Can Packaging:** Fifty-five 3013 containers were produced during this reporting period. A total of 606 3013 containers have been produced during this fiscal year, 72 containers ahead of the production baseline.

### Disposition PFP Facility

**Transition 232-Z Facility:** The Quarterly Startup Notification Report response was received from RL on May 1, 2003. RL agreed with the contractor readiness assessment, but added RL as the startup approval authority.

**Transition 234-5Z Facility:** Activity Based Management Review (ABMR) activities were kicked off for disposition of legacy hold-up materials. An ABMR checklist has been developed for packaging legacy holdup material by the Residues Team into POCs.

## NOTABLE ACCOMPLISHMENTS, CONTINUED

### Transition 241-Z Facility:

- The revised 241-Z Notice of Construction (Revision 1) was formally transmitted to RL on May 5, 2003.
- The FH internal comments on the 241-Z Resource and Recovery Act of 1976 closure plan were incorporated on May 7, 2003. A meeting with Ecology and RL was held on May 15, 2003, to answer questions on the closure plan. Informal closure plan comments from RL were received on May 16, 2003, and the plan was transmitted to RL on May 30, 2003.
- RL concurred via an April 29, 2003, response to the Quarterly Safety Notification Report that 241-Z cell and tank decontamination activities (terminal clean out) do not require a formal readiness assessment.

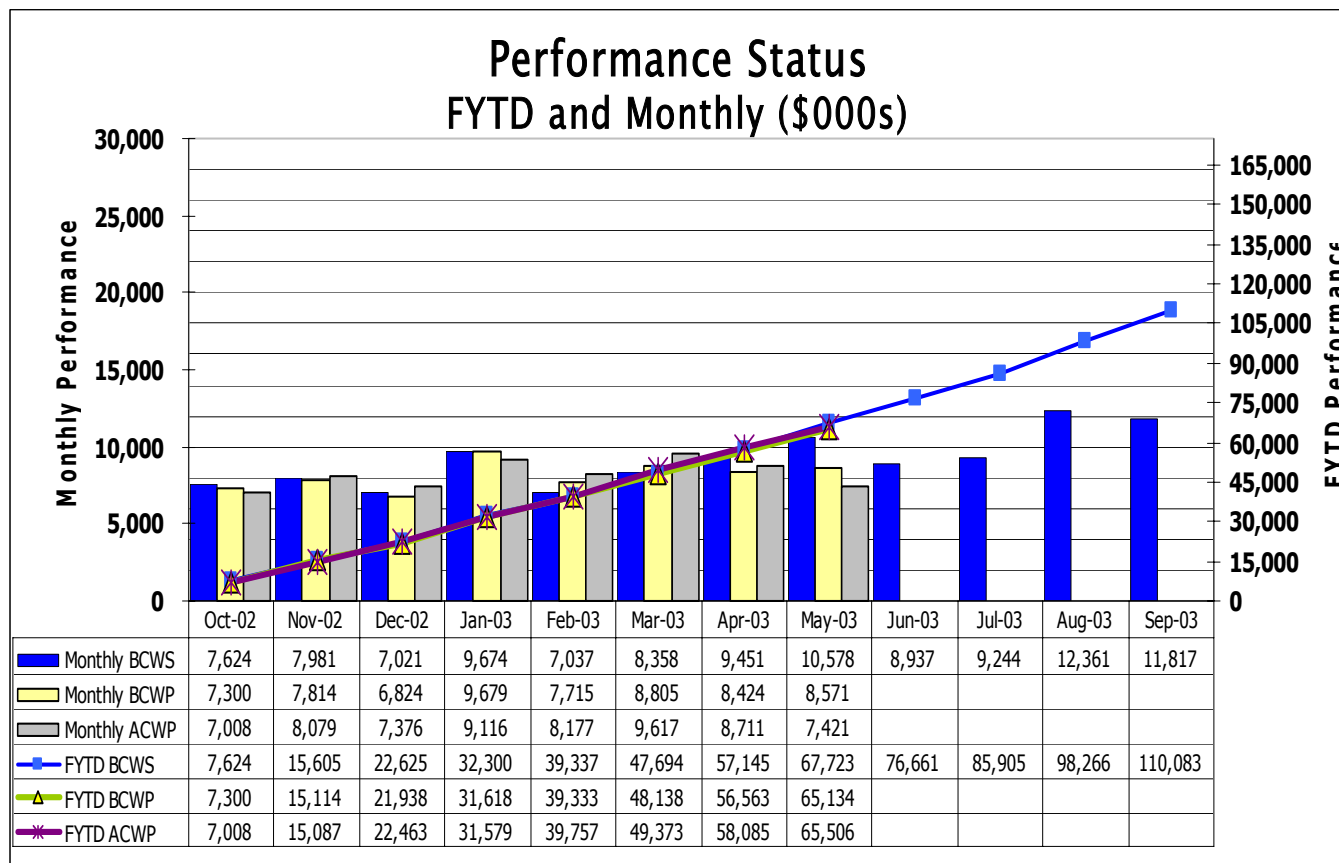
## FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

**Schedule Variance (-\$2,589K/-4%):** The negative variance of -\$2,589K is primarily attributed to delayed procurement of POCs, deferral of the 2736-ZB vault complex Documented Safety Analysis (DSA), late start of the PFP complex engineering evaluation/cost analysis, and the incorporation of comments on the 234-5Z deactivation and decommissioning Basis for Interim Operations draft. The following corrective actions are planned: procurement of POCs has been placed. POCs will be received on a schedule to support packaging of residues/mixed oxides and pending authorization for the de-inventory of the 2736-ZB vault complex, which would eliminate the need for the DSA.

**Cost Variance (-\$372K/-1.0%):** Variances are within the threshold (+/- 10% or \$1M) therefore, no variance analysis is provided.

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-CP03 Plutonium Finishing Plant	67,723	65,134	65,506	-2,589	-4%	-372	-1%	110,083

## FY 2003 Schedule/Cost Performance, continued



## MILESTONE ACHIEVEMENT

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-03-501	Submit Facility End Point Criteria Document to Ecology	TPA	9/30/03			On Schedule
TRP-03-503	Submit to Ecology a PFP Residual Chemical Hazards Assessment	TPA	12/31/02	12/27/02		Complete
TRP-03-504	Submit Closure Plan for 241-Z Waste Treatment Facility TSD Unit to Ecology	TPA	7/31/03			On Schedule
TRP-04-506	Completion of all Pu Stabilization & Packaging	PI	2/18/04			On Schedule
TRP-04-508	Complete Repackaging of PFP Residues and Ship to CWC	TPA	4/30/04			On Schedule
TRP-05-501	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	TPA	6/30/05			On Schedule
TRP-05-503	Special Nuclear Material Transferred to Savannah River Site of DOE Approved Interim Storage	PI	9/30/05			On Schedule
TRP-05-504	Legacy Pu Holdup Removed & Dispositioned	PI	9/30/05			On Schedule
TRP-06-501	Complete 100% of Legacy Pu Holdup Removal & Disposition	TPA	9/30/06			On Schedule
TRP-06-502	Complete Transition & Dismantlement of the 232-Z Bldg Incinerator	TPA	9/30/06			On Schedule
TRP-06-503	Protected Area Eliminated	PI	12/31/05			On Schedule
TRP-06-507	PFP Facilities (61 Buildings) Ready For Demolition	PI	9/30/06			On Schedule

## FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
RL-CP03 Plutonium Finishing Plant			
Project Completion - Operating	\$ 106,272	\$ 109,189	\$ (2,917)

## ISSUES

**Shipment of the first 3013 containers to Savannah River Site (SRS):** PFP continues working with DOE (RL, HQ and SRS) to resolve and complete all activities needed to make the first shipment of material from PFP to SRS. FH's goal is to make one shipment in FY 2003 to verify readiness.